

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
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AN 2000:608442 CAPLUS
 DN 133:190197
 TI Use of polycations in the stabilization and extraction of nucleic acids
 IN Erbacher, Christoph; Bastian, Helge; Wyrich, Ralf; Oelmuller, Uwe; Manz, Thomas
 PA Qiagen G.m.b.H., Germany
 SO Eur. Pat. Appl., 49 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 IC ICM C12N015-10
 ICS C07D295-037; C07C211-63
 CC 9-9 (Biochemical Methods)
 Section cross-reference(s): 3
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>EP 1031626</u>	A1	20000830	<u>EP 2000-103816</u>	20000223
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
<u>JP 2000342259</u>	A2	20001212	<u>JP 2000-45524</u>	20000223
<u>PRAI EP 1999-103457</u>	A	19990223		

AB Polycations that can be used to stabilize nucleic acids during extn. and purifn. are described. The compds. have two closely-linked cationic centers, preferably nitrogens. Complexes between these polycations and nucleic acids are larger and sediment more rapidly than those prepd. with prior art cationic polymers such as tetradecyltrimethylammonium oxalate. Use of the reagents to purify DNA and RNA from a no. of sources is demonstrated.

ST polycation nucleic acid stabilization extn; DNA stabilization extn
 polycation; RNA stabilization extn polycation

IT Alcohols, uses
 Aldehydes, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (C1-4, in cell lysis; use of polycations in stabilization and extn. of nucleic acids)

IT Membrane filters
 (capture of nucleic acids on; use of polycations in stabilization and extn. of nucleic acids)

IT Polyelectrolytes
 (cationic; use of polycations in stabilization and extn. of nucleic acids)

IT Denaturants
 (chaotropic, in cell lysis; use of polycations in stabilization and extn. of nucleic acids)

IT Centrifugation
 (collection of nucleic acids complexes by; use of polycations in stabilization and extn. of nucleic acids)

IT Carboxylic acids, uses
 Phenols, uses
 Salts, uses
 Thiols (organic), uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (in cell lysis; use of polycations in stabilization and extn. of nucleic acids)

IT Exudate
 (inflammatory, isolation of nucleic acids from; use of polycations in

- stabilization and extn. of nucleic acids)
- IT Detergents
(ionic, in cell lysis; use of polycations in stabilization and extn. of nucleic acids)
- IT Blood analysis
Sperm
Sputum
Urine analysis
(isolation of nucleic acids for; use of polycations in stabilization and extn. of nucleic acids)
- IT Bacteria (Eubacteria)
Cell
Feces
Leukocyte
Plant (Embryophyta)
Virus
Yeast
(isolation of nucleic acids from; use of polycations in stabilization and extn. of nucleic acids)
- IT Test kits
(isolation of nucleic acids in; use of polycations in stabilization and extn. of nucleic acids)
- IT Diagnosis
(mol., isolation of nucleic acids in; use of polycations in stabilization and extn. of nucleic acids)
- IT Detergents
(nonionic, in cell lysis; use of polycations in stabilization and extn. of nucleic acids)
- IT Nucleic acids
RL: PUR (Purification or recovery); PREP (Preparation)
(use of polycations in stabilization and extn. of nucleic acids)
- IT Detergents
(zwitterionic, in cell lysis; use of polycations in stabilization and extn. of nucleic acids)
- IT 126-73-8, Tributyl phosphate, uses 3483-12-3, Dithiothreitol
7664-38-2D, Phosphoric acid, derivs., uses
RL: MOA (Modifier or additive use); USES (Uses)
(in cell lysis; use of polycations in stabilization and extn. of nucleic acids)
- IT 6309-01-9P 15590-93-9P 18464-23-8P 21948-95-8P 21948-96-9P
29104-93-6P 29908-17-6P 40661-04-9P 40661-10-7P 71753-44-1P
71753-45-2P 75174-83-3P 86009-95-2P 87723-15-7P 87723-20-4P
114669-76-0P 114669-77-1P 157782-11-1P 207726-16-7P 207726-17-8P
207726-18-9P 207726-19-0P 215647-95-3P 254106-19-9P 289618-09-3P
289618-10-6P 289618-11-7P 289618-12-8P 289618-13-9P 289618-14-0P
289618-15-1P
RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(prepn. and use in nucleic acid purifn. of; use of polycations in stabilization and extn. of nucleic acids)
- IT 106-58-1 106-93-4, 1,2-Dibromoethane 107-82-4, 1-Bromo-3-methyl butane
109-64-8, 1,3-Dibromopropane 110-18-9, N,N,N',N'-Tetramethylethylenediamine 110-52-1, 1,4-Dibromobutane 110-95-2 111-83-1, Octyl bromide
112-29-8, 1-Bromodecane 112-71-0, 1-Bromotetradecane 112-82-3, Hexadecyl bromide 112-89-0, 1-Bromooctadecane 124-22-1, Dodecylamine
143-15-7, Dodecyl bromide 2016-57-1, Decylamine 3030-47-5 4276-49-7, Eicosyl bromide 27195-72-8, Tetramethyl butane diamine
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactions of; use of polycations in stabilization and extn. of nucleic acids)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Crinos Industria Farmacobiologica S P A; DE 2154278 A 1972 CAPLUS
- (2) Horniak; 1989, 110
- (3) Horniak; STUD BIOPHYS 1988, V124(1), P61 CAPLUS
- (4) Kiev Dotors Train; SU 1081171 A 1984 CAPLUS
- (5) Macfarlane, D; US 5010183 A 1991 CAPLUS
- (6) Ottawa Civic Hospital; EP 0773295 A 1997 CAPLUS
- (7) Prague; FOLIA MICROBIOL 1991, V36(3), P240
- (8) Qiagen GmbH; WO 9819709 A 1998 CAPLUS
- (9) Sykora; 1991, 115
- (10) Sykora; 1991, 115
- (11) Szech; CS 266103 A CAPLUS
- (12) Univ Iowa Res Found; WO 9418156 A 1994 CAPLUS